

Application Number:  
Amendment Dated:  
Reply to Office Action Dated

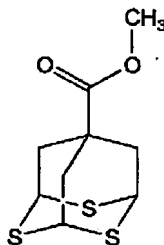
10/562,090  
September 14, 2007  
June 14, 2007

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**LISTING OF THE CLAIMS**

1. (original) A compound having the formula:



2. (amended) A method for synthesizing methyl 2,4,9-trithiaadamantane-7-carboxylate comprising [[of]] the step of:

reacting oxidized methyl triallyl acetate with a sulphuring agent and a Lewis acid to produce methyl 2,4,9-trithiaadamantane-7-carboxylate.

3. (original) The method of claim 2, wherein the sulphuring agent is 2,4-bis(4-methoxyphenyl)-1,3,2,4-dithiadiphosphetane 2,4-disulfide; phosphorus pentasulfide hexamethyl-disiloxane; or a combination thereof.

4. (original) The method of claim 2, wherein the sulphuring agent is reacted with oxidized methyl triallyl acetate in a relative mole ratio ranging from about 6:1 to about 1:1.

5. (original) The method of claim 2, wherein the sulphuring agent is reacted with oxidized methyl triallyl acetate in a relative mole ratio ranging from about 3:1 to about 2:1

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6. (original) The method of claim 2, wherein the Lewis acid is  $\text{BF}_3 \cdot \text{Et}_2\text{O}$ ,  $\text{BCl}_3 \cdot \text{Et}_2\text{O}$ , or a combination thereof.

7. (original) The method of claim 2, wherein the Lewis acid is reacted with the oxidized methyl triallyl acetate in a relative mole ratio ranging from about 4:1 to about 1:1.

8. (original) The method of claim 2, wherein the Lewis acid is reacted with the oxidized methyl triallyl acetate in a relative mole ratio ranging from about 3:1 to about 2:1.

9. (original) The method of claim 2, wherein the step of reacting oxidized methyl triallyl acetate with a sulphuring agent and a Lewis acid to produce methyl 2,4,9-trithiaadamantane-7-carboxylate occurs in a noncoordinated or weakly coordinated solvent.

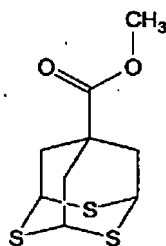
10. (original) The method of claim 9 wherein the noncoordinated or weakly coordinated solvent is methylene chloride, carbon tetrachloride, benzene, or any combination thereof.

11. (original) The method of claim 2, further comprising the step of using a metallic powder to purify a methyl 2,4,9-trithiaadamantane-7-carboxylate reaction product.

12. (original) The method of claim 11, wherein the metallic powder is a copper powder.

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13. (new) A compound having a formula as shown below:



wherein the above compound is synthesized by reacting oxidized methyl triallyl acetate with a sulphuring agent and a Lewis acid.